

Message Text

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PAGE 01 STATE 002842
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EPA:HWISER
NSF:AGROBECKER
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FAA:ABRODERICK
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FM SECSTATE WASHDC
TO AMEMBASSY NAIROBI PRIORITY
INFO USMISSION GENEVA
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E.O. 11652: NA

TAGS: SENV, KE

SUBJECT: UNEP OZONE MEETING

REF: (A) STATE 308471, (B) NAIROBI 13930

PERMREP IS REQUESTED TO PASS TO APPROPRIATE UNEP OFFICIAL
FOLLOWING TEXT OF SUMMARY OF U.S. PAPER FOR SUBJECT
MEETING.

"ABSTRACT OF U.S. PAPER FOR UNEP INTERNATIONAL MEETING ON
THE OZONE LAYER
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PAGE 02 STATE 002842

"U.S. INVESTIGATIONS ON THE POSSIBLE MODIFICATION OF THE
OZONE LAYER BY HUMAN ACTIVITIES, AND RESULTANT EFFECTS ON
THE EARTH'S BIOSPHERE, HAVE EMPHASIZED THE ATMOSPHERIC
CHEMISTRY AND DYNAMICS GOVERNING THE DISTRIBUTION OF OZONE
IN THE STRATOSPHERE. THESE INVESTIGATIONS HAVE PERMITTED
PROJECTIONS OF OZONE DEPLETION, BASED PRIMARILY ON CALCULA-

TIONS WITH TIME-DEPENDENT, ONE- AND TWO-DIMENSIONAL MODELS. THE U.S. NATIONAL ACADEMY OF SCIENCES HAS ESTIMATED THE PROJECTED STEADY STATE REDUCTION OF OZONE, ON THE BASIS OF 1973 CHLOROFLUOROMETHANE EMISSIONS, TO BE ABOUT 6 TO 7.5 PERCENT WITH AN OVERALL RANGE DUE TO COMBINED UNCERTAINTIES OF FROM 2 TO 20 PERCENT.

"CHEMICAL REACTION RATE INPUT DATA FOR THE MODELLING HAVE BEEN RECHECKED AND IMPROVED BY DIRECT LABORATORY MEASUREMENTS. FIELD MEASUREMENTS HAVE BEEN USED TO CHECK THE VALIDITY OF MODEL PROJECTION BY COMPARING PROJECTED AND MEASURED VALUES OF SELECTED ATMOSPHERIC CHEMICAL CONCENTRATIONS. FIELD MEASUREMENTS, INCLUDING SATELLITE TECHNIQUES, HAVE BEEN MADE IN THE STRATOSPHERE OF CHLOROFLUOROMETHANE, HCL, CLO, NO2, HN03, N2O, HO AND CH4, STRENGTHENING THE FOUNDATIONS OF THE HYPOTHESIS INDICATING REDUCTION OF GLOBAL OZONE CONCENTRATION.

"EMPHASIS HAS BEEN RENEWED ON INVESTIGATIONS OF BIOLOGICAL AND CLIMATIC EFFECTS OF POSSIBLE OZONE DIMINUTION. THE BASIC EFFORT IS ON IMPROVED MEASUREMENTS OF UV INTENSITIES AND TOTAL OZONE COLUMN WITH SATELLITE AND OTHER TECHNIQUES. HUMAN HEALTH EFFECTS CENTER ON COROLLATION OF UV DOSE AND INCIDENCE OF SKIN CANCER GENERATION. NONHUMAN BIOLOGICAL EFFECTS CENTER ON THE UV RADIATION SENSITIVITY OF BIOTA AND THEIR ECOSYSTEMS INCLUDING AGRICULTURAL CROPS AND MARINE FOOD CHAIN ELEMENTS AND FOOD SOURCES. CLIMATE EFFECTS, OTHER THAN ON UV FLUX, INVESTIGATIONS CENTER ON THE RELATIONSHIP OF REGIONAL CHANGES OF TEMPERATURE AND PRECIPITATION TO CHANGES IN GLOBAL AVERAGE VARIABLES.

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PAGE 03 STATE 002842

TURE AND PRECIPITATION TO CHANGES IN GLOBAL AVERAGE VARIABLES.

"RECENT U.S. INVESTIGATIONS OF ECONOMICS EFFECTS HAVE FOCUSED ON EXAMINING THE ECONOMIC IMPACTS OF HYPOTHETICAL AEROSOL REGULATORY SCENARIOS WITH ATTENTION TO POSSIBLE ALTERNATIVES FOR MEETING INDUSTRIAL AND CONSUMER NEEDS. THESE INVESTIGATIONS ARE NOW BEING EXTENDED TO THE ECONOMIC ANALYSIS OF ENVIRONMENTAL CONSEQUENCES OF POSSIBLE FUTURE NON-AEROSOL REGULATIONS."

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Message Attributes

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Disposition History: n/a
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